ABSTRACT OF THE DISCLOSURE

A network device is connectable to a network for use in directing data. The receiving process is executed by receiving data having a physical address indicating a destination of the data, comparing the physical address of the received data with registered physical addresses, completing the receiving process when the physical address of the received data matches with one of the registered physical addresses, and otherwise canceling the receiving process. The transmitting process is executed by detecting a destination of data to be transmitted, selecting one of the registered physical addresses according to the detected destination of the data to be transmitted, and attaching the selected physical address to the data, thereby indicating an origin of the data.